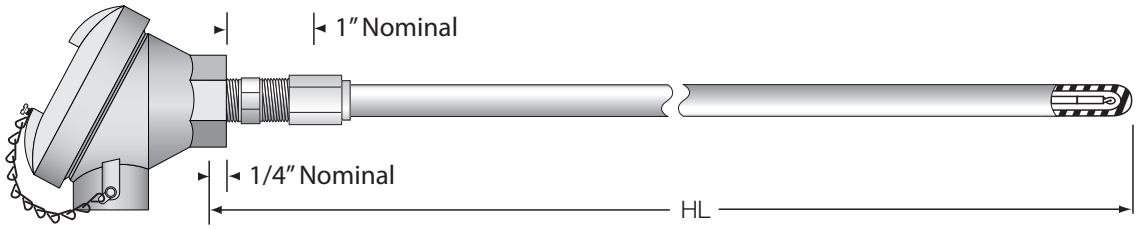
Thinwall Protection Tube T/C

InstruCon

Base metal industrial thermocouple assemblies are designed to be used in the most severe and demanding environments. The choice of a specific style is to a large degree determined by the temperature working range, ambient atmospheric or media conditions, as well as the size and shape required for the application. Control requirements such as accuracy and speed of response may also be considerations.

The Thinwall Protection Tube Thermocouples offer the same functionality and features as other industrial sensors, except that they will only accommodate wire down to 14 gauge. These thermocouples can be mounted to the process with compression attaching devices.



Code	Field 11, 12: Reserved
00	Reserved

Code	Field 14, 15: Reserved
00	Reserved

1	2	3	4	-	5	6	7	8	9	-	10	11	12	-	13	-	14	15
												0	0				0	0

Field 1

Code	Type	Wire Material
J	Type J	Iron-Constantan
K	Type K	Chromel-Alumel
E	Type E	Chromel-Constantan

Field 13

Code	Process Mounting Fitting
0	None
7	Double Ended Bushing, 1/2" NPT

Fields 10

Code	Hot End
0	Closed End
8	Open End

Fields 8, 9

Code	Hot Length "HL"
HL	Enter Hot Length in inches using two digits *NOTE: If over 98", specify 99 = "length" on order*

Field 2, 3

Gauge	Code	Limits
14	14	Standard
	15	Special
20	20	Standard
	21	Special

Field 4

Elements	Code	Junction Style	Ground
Single	I	Twisted	Grounded
	2		Ungrounded
	3	Butt Welded	Grounded
	4		Ungrounded
Dual	5	Twisted	Grounded
	6	Common, Butt Welded	Ungrounded
	H	Isolated, Butt Welded	Ungrounded

Field 5, 6

Code	O.D.	Protection Tube Material
65	0.188" (3/16")	304 stainless steel
66	0.250" (1/4")	
67*	0.375" (3/8")	
68	0.188" (3/16")	316 stainless steel
69	0.250" (1/4")	
70*	0.375" (3/8")	
72	0.250" (1/4")	Inconel

*Not applicable if Field 7 is code 5, 6 or 8.

Field 7

Code	Cold End Termination	Code with Transmitter
1	Cast Iron. Obsolete, replace with Code 2	
3	Aluminum. Obsolete, replace with Code A	
5	Ceramic Wafer	
6	Miniature Head	
8	Weatherproof, plastic head 350ºF	
Q	Weatherproof, plastic head, high temp. 800ºF	
2	Weatherproof, cast iron head (NEMA 4X)	S*
A	Weatherproof, aluminum head (NEMA 4X)	T*
4	Weatherproof, 316 SS (NEMA 4X)	U*
K	Explosion proof, aluminum head (NEMA 4X)	V*
L	Explosion proof, blue epoxy, aluminum head (ATEX)	W*
M	Explosion proof, 316 SS head (NEMA 4X)	X*
N	Explosion proof, 316 SS head (ATEX)	Y*

Must specify the range of the sensor on the order. (i.e., 0ºF - 800ºF)


Code 5


Code 06


Code 8


Code Q


Code 2 (S*)


Code A (T*)


Code 4 (U*)


Code K (V*)


Code L (W*)


Code M (X*), N (Y*)

*Add a Transmitter

Select the code in the Transmitter Code column to add a fully isolated 4 to 20 ma two-wire loop powered temperature transmitter for in-head assembly.

You must specify the range of the sensor on the order. (i.e. 0ºF - 800ºF)